WHAT IS CLAIMED IS:

1. A DNA fragment comprising a base sequence encoding a polypeptide derived from human brain and possessing natriuretic activity.

2. The DNA fragment according to Claim 1, wherein said polypeptide has the following amino acid sequence:

Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp Arg Ile Ser Ser Ser Ser Gly Leu Gly Cys Lys Val Leu Arg Arg His.

3. The DNA fragment according to Claim 1, wherein said polypeptide has the following amino acid sequence:

His Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln Val Glu Gln Thr Ser Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg Glu Val Ala Thr Glu Gly Ile Arg Gly His Arg Lys Met Val Leu Tyr Thr Leu Arg Ala Pro Arg Ser Pro Lys Met Val Gln Gly Ser Gly Cys Phe Gly Arg Lys Met Asp Arg Ile Ser Ser Ser Ser Gly Leu

4. The DNA fragment according to Claim 1, wherein said polypeptide has the following amino acid sequence:

Met Asp Pro Gln Thr Ala Pro Ser Arg Ala Leu Leu Leu Leu Leu Phe Leu His Leu Ala Phe Leu Gly Gly Arg Ser His Pro Leu Gly Ser Pro Gly Ser Ala Ser Asp Leu Glu Thr Ser Gly Leu Gln Glu Gln Arg Asn His Leu Gln Gly Lys Leu Ser Glu Leu Gln Val Glu Gln Thr Ser Leu Glu Pro Leu Gln Glu Ser Pro Arg Pro Thr Gly Val Trp Lys Ser Arg Glu Val Ala Thr

a/ contd/

Glu Gly Ile Arg Gly His Arg Lys ~~Met~~ Val Leu Tyr Thr Leu

Arg Ala Pro Arg Ser ~~Pro~~ Lys Met Val Gln Gly Ser Gly Cys

Phe Gly ~~Arg~~ Lys Met Asp Arg Ile Ser Ser Ser Ser Gly Leu

~~Gly~~ Cys Lys Val Leu Arg Arg His

a B 5. The ~~DNA fragment~~ recombinant DNA sequence according to Claim ~~1 or~~ 2 having the following base sequence:

AGC CCC AAG ATG GTG CAA GGG TCT GGC TGC TTT GGG AGG AAG

ATG GAC CGG ATC AGC TCC TCC AGT GGC CTG GGC TGC AAA GTG

CTG AGG CGG CAT

a B 6. The ~~DNA fragment~~ recombinant DNA sequence according to Claim ~~1 or~~ 3 having the following base sequence:

CAC CCG CTG GGC AGC CCC GGT TCA GCC TCG GAC TTG GAA ACG

TCC GGG TTA CAG GAG CAG CGC AAC CAT TTG CAG GGC AAA CTG

TCG GAG CTG CAG GTG GAG CAG ACA TCC CTG GAG CCC CTC CAG

GAG AGC CCC CGT CCC ACA GGT GTC TGG AAG TCC CGG GAG GTA

GCC ACC GAG GGC ATC CGT GGG CAC CGC AAA ATG GTC CTC TAC

ACC CTG CGG GCA CCA CGA AGC CCC AAG ATG GTG CAA GGG TCT

GGC TGC TTT GGG AGG AAG ATG GAC CGG ATC AGC TCC TCC AGT

GGC CTG GGC TGC AAA GTG CTG AGG CGG CAT

a B 7. The ~~DNA fragment~~ recombinant DNA sequence according to Claim ~~1 or~~ 4 having the following base sequence:

ATG GAT CCC CAG ACA GCA CCT TCC CGG GCG CTC CTG CTC CTG

CTC TTC TTG CAT CTG GCT TTC CTG GGA GGT CGT TCC CAC CCG

CTG GGC AGC CCC GGT TCA GCC TCG GAC TTG GAA ACG TCC GGG

TTA CAG GAG CAG CGC AAC CAT TTG CAG GGC AAA CTG TCG GAG

CTG CAG GTG GAG CAG ACA TCC CTG GAG CCC CTC CAG GAG AGC

CCC CGT CCC ACA GGT GTC TGG AAG TCC CGG GAG GTA GCC ACC GAG GGC ATC CGT GGG CAC CGC AAA ATG GTC CTC TAC ACC CTG CGG GCA CCA CGA AGC CCC AAG ATG GTG CAA GGG TCT GGC TGC TTT GGG AGG AAG ATG GAC CGG ATC AGC TCC TCC AGT GGC CTG GGC TGC AAA GTG CTG AGG CGG CAT

8. A physiologically active polypeptide represented by formula (I),

X-Cys-Phe-Gly-Arg-Lys-Met-Asp-Arg-Ile-Ser-Ser-Ser-Ser-Gly-Leu-Gly-Cys-Lys-Val-Leu-Arg-Arg-His-OH (I)

wherein X is H, H-Gly-Ser-Gly-, or H-Ser-Pro-Lys-Met-Val-Gln-Gly-Ser-Gly-.

9. A pharmaceutical composition for curing circulation diseases which comprises as an effective ingredient the physiologically active polypeptide of Claim 8.

Add B' 1D'

Add E2